

Recrystallization Diagrams for Induction
Heating

77168
SOV/129-60-1-16/22

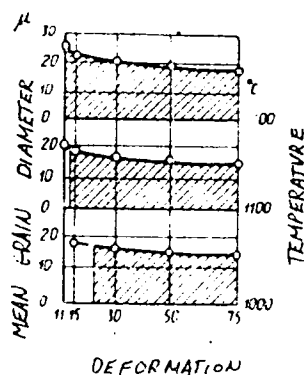


Fig. 2. Recrystallization diagram
of 1Kh18N9T-steel at heating speed
of 60° C/sec.

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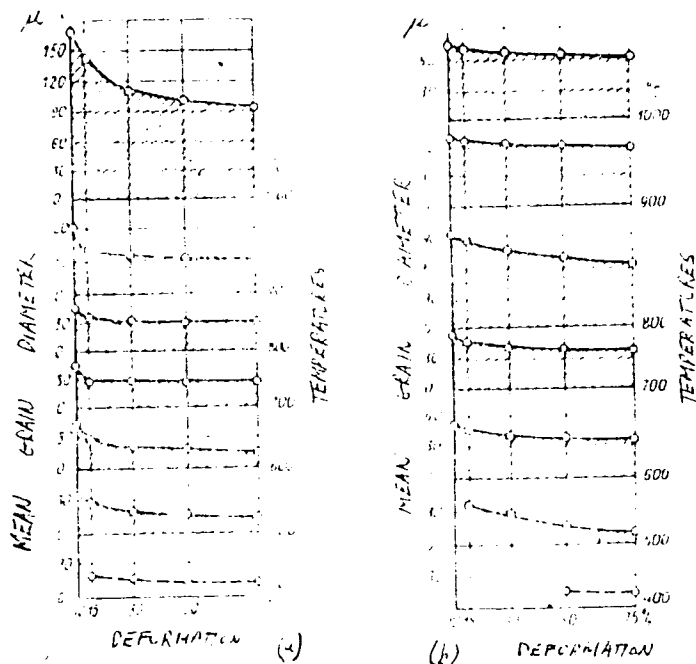


Fig. 3. Re-crystallization diagram of copper; (a) heating speed 500° C/sec, and (b) 500° C/sec speed.

Recrystallization Diagrams for Induction
Heating

77168
COV/129-60-1-16/2

changes within the $1,000^{\circ}\text{C}$ to $1,200^{\circ}\text{C}$ range hardly influence the grain size; (c) in copper at $1,000^{\circ}\text{C}$

and a heating speed of 50°C/sec the grain growth is as pronounced as in regular furnace heating (see Fig. 2). (3) Effect of heating rates on grain size:

(a) in commercial iron, although the grain size is hardly affected by the rate of heating, the latter considerably influences the temperature of the beginning of crystallization (see Fig. 1 (a) and (b)); (b) in steel, accelerated heating rates conspicuously inhibit grain growth; recrystallization begins at

$1,000^{\circ}\text{C}$; (c) in copper, grain size is influenced by heating speeds only at $1,000^{\circ}\text{C}$ (see Fig. 2).

Recrystallization starts at 900°C with heating speeds

of 50°C/sec and 500°C/sec . The authors recommend the following heating rates: (a) commercial iron, to $1,000^{\circ}\text{C}$ at 50°C/sec or to $1,100^{\circ}\text{C}$ at 200 to 500°C/sec ; (b) 1Kh18N9T-steel, to $1,200^{\circ}\text{C}$ at 50 to 500°C/sec ; (c) copper, 900°C to $1,000^{\circ}\text{C}$ at 50°C/sec or

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Recrystallization Diagrams for Induction
Heating

Form
SOV 124-01-1-11-11

600 to 1100°C at 200 to 500°C/sec. These rates insure complete recrystallization and a minimum grain size regardless of the degree of deformation. The authors conclude in regard to induction heating versus furnace heating as follows: (1) The temperature of the recrystallization threshold increases with increased speeds of induction heating and is considerably higher than in furnace heating; (2) Grain growth, as a result of lower rates of deformation, is slower at elevated temperatures which have a slighter effect than in furnace heating; (3) The absence of a clearly marked maximum grain size at critical rates of deformation is due to the peculiarities of induction heating and the short period of holding at maximum temperatures. The formation of recrystallization centers occurs considerably faster than the grain growth; (4) The speed of induction heating has no appreciable effect on grain size; The latter decreases slightly with increased speeds at similar temperatures and deformation rates; (5) Recrystallized structure is finer than in furnace heating as a result

Card 7/8

Recrystallization Diagrams for Indolene
Heating

Fig. 1
DSC 1000-1000

The diagram shows the formation of a great number of
recrystallization centers at elevated temperatures
temperatures 100°C and 150°C; and 100°C
reference.

Car: 1/1

PHASE I BOOK EXPLOITATION SOV/0013

Материалы науч. Белорусской ССР. Физико-технический институт
Собрание научных трудов, вып. 5 (Collected Scientific Papers of the
Institute of Physics, Belarusian Academy of Sciences, Belorusskaya
SSR, No. 5) Minsk, 1959. 235 p. Krieva slip
Illustrated. 1,100 copies printed.

Ed. of Publishing House: L. Markov, Tech. Ed.: I. Volokhovskiy;
Editorial Board: V.P. Savchenko, Academician, Academy of Sciences
USSR (Chief Ed.), L.V. Dorov, Academician, Academy of Sciences
USSR, M.N. Podgorskiy, Candidate of Technical Sciences, and
P.A. Pechenkin, Candidate of Technical Sciences.

PRIMER: This book is intended for technical personnel and sci-
entific workers.

CONTENTS: This collection of 23 articles covers the following
subjects: Small draft rolling analysis of wire-drawing, design
of deep-drawing dies, impact upsetting, examination of the effect
of temperature on plastic deformation, superplasticity and carburizing
processes, the phenomena of pulse-discharge, etc. ~~Investigations~~
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Pulse Energy Processing and Design Elements of ~~Small-Pulse~~ Dies
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Podgorskiy, M.N., and I.D. Prokhorov. Investigation of the
Cooling of Dies with Rotary Ball-Burnishers 230

PAVLYUKOVICH, O. L.

AUTHOR: None given

129-2-11/11

TITLE: Dissertations (Dissertatsii)

PERIODICAL: Metallovedeniye i Obrabotka Metallov, 1958, No.2,
p. 63 (USSR).

ABSTRACT: T.A. Vladimirovskiy - On Certain Types of Fracture Without Deformation of the Metal of Steam Boilers and Railway Transportation and on the Sensitivity of Steel to Develop Brittleness (O nekotorykh vidakh bezdeformatsionnogo razrusheniya metalla parovykh kotlov na sh-d. transporte i o chuvstvitel'nosti stali k khrupkosti) - Doctor of Technical Sciences. Moscow, 1957. Institute of Metallurgy imeni A.A. Baykov.
A.N. Istomin - Properties of the Steel UX-15 at Low Temperatures as a Function of the Heat Treatment Regimes (Svoystvo stali ShKh-15 pri nizkikh temperaturakh v zavisimosti ot rezhimov termicheskoy obrabotki) - Candidate of Technical Sciences. Kiev, 1957, Ac.Sc. Ukrainian SSR. Institute of Structural Mechanics.
N.V. Korovin - Cathode Process During Electroplating of the Iron-Nickel Alloy and the Properties of Such Coating (Katodnyy protsess pri elektroosazhdenii splava zhelezo-nikel' i svoystva pokrytiy) - Candidate of Technical Sciences. Moscow, 1957.

Card 1/3 Moscow Institute of Non-ferrous Metals and Gold imeni M.I. Kalinin.

Dissertations.

129-2-11/11

Leningrad, 1957. State Optical Institute imeni S.I. Vavilov.
Ye.D. Shchukin - Study of the non-uniformities of the Plastic
Deformation of Metallic Single Crystals (Izucheniye neodnorodno-
stey plasticheskoy deformatsii metallicheskih monokristallov)
- Candidate of Physico-mathematical Sciences. Moscow, 1957.
Ac.Sc. USSR. Institute of Physical Chemistry.

I.B. Veyts - Determination of the Dissociation Energy of Oxides
of Alkali Metals on the Basis of Measuring the Intensity of
Resonance Lines of Atoms of the Metal in the Spektra of the
Flame (Opredeleniye energii dissotsiatsii okislov shchelochno-
zemel'nykh metallov na osnove izmereniya intensivnosti rezonans-
nykh liniy atomov metallov v spektrakh plamen) - Candidate of
Chemical Sciences. Moscow, 1957. Moscow State University
imeni M.V. Lomonosov.

G.N. Pirogova - Investigation of Paratungstates (Issledovaniye
parovolframatov) - Candidate of Chemical Sciences. Moscow, 1957.
Moscow State University imeni M.V. Lomonosov.

AVAILABLE: Library of Congress.

Card 3/3

BODYAKO, M.N.; LOYKO, Yu.M.; PAVLYUKOVICH, B.L.

Recrystallization of induction heated Arco-iron and 1Kh18N9T
steel. Inzh.-fiz.sbur. no.1:74-79 Ja '58. (MIRA 11:7)

1.Fiziko-tekhnicheskii institut AN BSSR, g.Minsk.
(Iron--Metallography) (Steel--Metallography)

BODYAKO, M.N.; LOYKO, Yu.M.; PAVLYUKOVICH, B.L.

Rate of recrystallisation at induction heating. Sbor.nauch.trud.
Fiz.-tekhn.inst. AN BSSR no.4:181-188 '58. (MIRA 11:11)
(Metals--Heat treatment)

MITKEVICH, S.P.; PAVLYUKOVICH, B.L.; BELYAKOV, I.I.

Electric pulse technique for the surface hardening of cast-iron
machine parts. Sbor.nauch.trud. Fiz.-tekh.inst.AN BSSR no.2:221-
229 '55. (MIRA 10:1)

(Hard facing) (Electric spark)

PAVLYUKEVICH, B. L., Cand Tech Sci -- (diss) "Recrystallization
Tempering of the Armco Iron and Steel ^{KL} D18N9T with Induction
Annealing." Minsk, 1957. 9 pp (Acad Sci Belorussian SSR,
Physico-Technical Inst), 100 copies (KL, 48-57, 107)

- 37 -

SOV/137-59-3-6297

Translation from: Referativnyy zhurnal Metallurgiya, 1959, Nr 3, p 193 (USSR)

AUTHORS: Pavlyukevich, B L, Bodyako M N, Loyko, Yu M

TITLE: Recrystallization of Cold-worked Metals During Induction Heating
(Rekristallizatsiya kholodnodeformirovannykh metallov pri induktsion-
nom nagreve)

PERIODICAL: V sb Materialy Konferentsii molodykh uchenykh AN BSSR
Minsk, 1958, pp 87-89

ABSTRACT: Metallographic and X-ray methods were employed in studying the kinetics of the processes of recrystallization (R) occurring during induction heating (H) of commercial iron and 1Kh18N9T steel. Specimens were subjected to deformations ranging from 5 to 75% in a press. They were then heated to various temperatures (600-1200°C) in an MGZ-102-type HF induction heater, the rates of H ranging from 50 to 650°/sec. The temperature was determined with the aid of a photoelectric pyrometer, the rate of H by means of oscillograms produced on a loop oscillograph. Rates and temperatures of R were determined as functions of the rate of H and of the degree of the antecedent deformation. The parameters of induction H were

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SOV/137-59-5-6297

Recrystallization of Cold-worked Metals During Induction Heating

established which ensure the achievement of a completely recrystallized structure
T M

Card 2/2

SOV 157-89 1-12-10

Translation from: Referativnyy zhurnal Metallurgiya, 1959, No. 1, p. 165 (USSR)

AUTHORS: Bodyako, M. N., Loyko, Yu. M., Pavlyukevich, B. L.

TITLE: An Investigation of Variations in Hardness of Strained Metal Occurring During High-frequency Induction Heating (Issledovanie izmeneniya tverдости pri nagreve deformirovannogo metalla tokom vysokochastoty)

PERIODICAL: Sb. nauchn. tr. fiz.-tekhn. inst. AN BSSR, 1958, Vol. 4, pp. 170-180

ABSTRACT: Investigations were carried out in order to determine how temperature, rate of induction heating, and degree of preceding deformation affect the H_B of Armco iron and of 1Kh18N9T steel after annealing. The specimens were cold-worked in a press, the degree of deformation ranging from 5 to 75%, after machining (to a diameter of 22 mm and a length of 10 mm) and heating in a HF unit of the MGZ-102 type to temperatures of 700-1200°C at rates of 50-650°C/sec, the specimens were cooled in water. It was established that deformations ranging from 5 to 30% have the greatest effect on the H_B and that the H_B curve exhibits a maximum. As the temperature is increased, the H_B is reduced, and the effect of the degree of deformation is

Card 1/2

SOV 19789 1 1216

An Investigation of Variations in Hardness of Strained Metal (cont.)

diminished. The effect of the heating rate on the H_B value is not appreciable. Compared with annealing in a furnace, the induction method produces somewhat higher H_B values.

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Card 2/2

SOV 137.59-3-6296

Translation from Referativnyy zhurnal Metallurgiya 1959, No. 1, p. 19 (USSR)

AUTHORS: Bodyako, M. N., Loyko, Yu. M., Pavlyukevich, B. L.

TITLE: On the Problem of the Recrystallization Rate During Induction Heating (K voprosu o skorosti rekristallizatsii pri induktsionnom nagreve)

PERIODICAL: Sb. nauchn. tr. Fiz.-tekhn. in-t AN BSSR, 1958, No. 4, pp. 181-188

ABSTRACT: Recrystallization (R) processes occurring during HF induction heating of cold-worked specimens (S) of type E Armco iron and of steel 1Kh18N9T were investigated experimentally. After annealing, the S's were deformed in a press, although the degree of deformation (D) varied from 5 to 75%, the final dimensions of the S's remained approximately identical (h = 10 mm, d = 30 mm). The S's were machined to a diameter of 22 mm and were then heated at various rates (50-6500/sec) in a HF induction heater to 700-1200°C. Mean numerical values of R rates (in a completed process) were established for Armco iron and for 1Kh18N9T steel as functions of the degree of preliminary D and the temperature and rate of induction heating. It is demonstrated that at a D of 5% the rate of R in

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SOV:137-59-3-6296

On the Problem of the Recrystallization Rate During Induction Heating

Armco iron is virtually independent of the degree of preliminary D. At a D equivalent to 15%, the rate of R is influenced by temperature in the region below the temperature of phase transformations only. In the case of Ds of 30-75%, in which almost all R temperatures fall below the temperature of phase transformations of Fe, the rate of R also increases with increasing temperatures. As the temperature of R is increased, its effect on the rate of the R process diminishes. The temperature of the R observed experimentally increases almost linearly as the rate of heating is increased.

V. N.

Card 2/2

L 26671-66 EWT(1)/EWP(e)/EWP(m)/EWT(m)/EWP(j)/ETC(m)-6/EWA(1) IG/WH/RM

ACC NR: AP6007187

SOURCE CODE: UR/0170/66/010/002/0212/0216

AUTHORS: Leytsina, V. G.; Pavlyukevich, N. V.

74
B

ORG: Institute of Heat and Mass Transfer, AN BSSR, Minsk (Institut teplo- i massobmena AN BSSR)

TITLE: On sublimation of a thin plate in a gas current

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 10, no. 2, 1966, 212-216

TOPIC TAGS: gas flow, heat transfer, laminar flow, sublimation, naphthalene, Prandtl number, temperature distribution

ABSTRACT: The sublimation of a thin plate in the laminar flow of hot air is investigated. The plate is assumed to have a temperature distribution given by

$$T_1(x, y, t) = T_0 - q(x, t)(y - D t),$$

with a constant back surface temperature. The governing time-dependent, two-dimensional equations are written for the gas-vapor mixture, and the solution is obtained for small times as

$$D = \frac{1}{2} \frac{p_\infty}{p_1} (v_\infty u_\infty)^{1/2} \frac{\varphi(0)}{\sqrt{x}},$$

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UDC: 532.517.2

L 26671-66

ACC NR: AP6007187

where D is the surface recession rate. In the steady state regime, the momentum equation becomes the same as that of Blasius, and a simplified solution is obtained under the assumption of Lewis and Prandtl numbers being unity. As a special case, the equilibrium sublimation of naphthalene is calculated, with the saturation pressure of its vapor being represented by

$$p = \exp \{a - b/(d + T_s)\}$$

Orig. art. has: 25 equations.

SUB CODE: 20/ SUBM DATE: 03May65/ ORIG REF: 007

Card 2/2

BLO

KUZ'MENKOV, L.N.; KONDRATENKO, M.I.; PAVLYUKOVICH, T.M.

Automatic densitometer for fluids. Zav. lab. 31 no. 3:381-383
'65. (MIRA 18:17)

1. Severo-Kavkazskiy filial konstruktorskogo byuro
"TSvetmetavtomatika".

TENISHEVA, T.F.; LAZAREV, A.N.; FAVLYUKOVICH, T.M.

Infrared spectra of lanthanum germanates. Izv. AN SSSR. Ser.
khim. no.9:1553-1556 '65. (MIRA 18:7)

1. Institut khimii silikatov im. I.V. Grebenshchikova AN SSSR.

L 5065-66 EWT(m)/EWP(t)/EWP(b) IJP(c) JD/JG

ACCESSION NR: AP5025508

UR/0062/65/000/009/1553/1556

543.422+546.65

35
34
BAUTHOR: Tenisheva, T. F.; Lazarev, A. N.; Pavlyukovich, T. M.TITLE: Infrared spectra of lanthanum germanates

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 9, 1965, 1553-1556

TOPIC TAGS: lanthanum compound, germanium compound, IR spectrum

ABSTRACT: IR spectra of the following four compounds of the $\text{La}_2\text{O}_3\text{-GeO}_2$ system were studied: $\text{La}_2\text{O}_3\cdot\text{GeO}_2$, $2\text{La}_2\text{O}_3\cdot 3\text{GeO}_2$, $\text{La}_2\text{O}_3\cdot 2\text{GeO}_2$, and $\text{La}_2\text{O}_3\cdot 3\text{GeO}_2$. The compounds were synthesized by N. Ye. Prikhod'do and E. Ye. Kornilova by sintering from the oxides. In contrast to the analogous $\text{La}_2\text{O}_3\text{-SiO}_2$ system, the germanate system includes the additional compound $\text{La}_2\text{O}_3\cdot 3\text{GeO}_2$. It is postulated on the basis of IR data that in this compound, some of the Ge atoms form tetrahedra, and the remaining ones, octahedra. The assumption that some Ge atoms have a sixfold coordination makes it possible to account for the very high intensity of the 634 cm^{-1} band. Unfortunately, the closeness of the vibrational frequencies of

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0901 0205

L 5065-66

ACCESSION NR: AP5025506

Ge-O bonds in germanium-oxygen tetrahedra and octahedra and the strong interaction of these vibrations do not permit any assumptions on the structure of the complex anion in $\text{La}_2\text{O}_3 \cdot 3\text{GeO}_2$ crystals on the basis of spectroscopic data alone. Orig. art. has: 2 figures and 1 table.

ASSOCIATION: Institut khimii silikatov im. I. V. Grebenshchikova Adademi nauk SSSR
(Institute of Silicate Chemistry, Academy of Sciences, SSSR)

SUBMITTED: 02Jul63

ENCL: 00

SUB CODE: IC, OP

NO REF SOV: 004

OTHER: 004

Card 2/2 *md*

L 16638-65 SSD/AFWL
ACCESSION NR: AP4047664

S/0119/64/000/010/0028/0028

AUTHOR: Kondratenko, M. I. (Engineer); Kuz'menkov, L. N. (Engineer);
Pavlyukovich, T. M. (Engineer) B

TITLE: Instrument for measuring the density of liquids

SOURCE: Priborostroyeniye, no. 10, 1964, 28

TOPIC TAGS: densimeter 10

ABSTRACT: A new continuous-measuring densimeter for liquids (including corroding liquids) consists of a cylindrical chamber with a stainless-metal float in it. A ferromagnetic plunger fastened to the float travels in the magnetic field of a differential transformer which is connected to a secondary indicating instrument calibrated in density units. The liquid flows upward through the cylinder and lifts the float, depending on its density. A sketch is supplied. Technical data reported: scale range, 0.1 g/cm³, can be placed anywhere

Card 1/2

L 16638-65

ACCESSION NR: AP4047664

between 1.0 and 1.8 g/cm³; scale factor, 0.001 g/cm³; error, $\pm 1.5\%$ of full scale; allowable temperature, 0-100C; temperature error, 0.1% of full scale per 1C. Orig. art. has: 1 figure.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: IE

NO REF SOV: 000

OTHER: 000

Card 2/2

S/0126/64/017/002/0197/0200

ACCESSION NR: AP4017351

AUTHORS: Arbuzov, M. P.; Pavlyukov, A. A.

TITLE: X ray analysis of the ANKO 4 alloy structure at 1023 to 1173K
(750 to 900C)

SOURCE: Fizika metallov i metallovedeniye, v. 17, no. 2, 1964, 197-200

TOPIC TAGS: ANKO 4 alloy, structure variation, hardening effect, tempering effect, high temperature effect, gamma phase, alpha phase, lattice parameter variation

ABSTRACT: The hardened and then tempered ANKO-4 single crystals were studied in the monochromatic radiation $\text{Co-K}\alpha$. The crystals were grown in a Tamman oven by a slow cooling of the molten metal to 1573K. They were homogenized at the same temperature for 10 hours, and were hardened in water. Their chemical composition proved to be identical with that of the original ANKO-4 alloy. The cylindrical samples cut from the crystals were 5-7 mm long and 1.3-1.5 mm in diameter. Their axes lay near the direction $[001]_{\alpha}$. The samples were tempered at 773-1173K and were etched to the diameter of 1 mm. The procedure followed in the x-ray analysis was described by R. D. Heidenreich and E. A. Nesbitt (J. Appl. Phys.,

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ACCESSION NR: AP4017351

1952, 23, 352). The use of the single crystals made it possible not only to study the interference pattern and to determine the reflection angles of the γ -phase, but also to draw the polar diagrams for many lines of this phase. These diagrams (see Fig. 1 of the Enclosure) showed that the γ -phase was oriented properly with respect to α' -phase axes. This orientation is described as:

$(111), \parallel (011), \perp [10\bar{1}], \parallel [\bar{1}\bar{1}1]$.

The poles corresponding to the above orientation are marked by open circles, and those actually found on the x-ray patterns are shown by hachured circles. It was established that the γ -phase with a cubic face-centered lattice (parameter 3.62 Å) is formed during the tempering process at 1023K, and that there exists a geometrical relation between the crystalline lattices of the γ -phase and of the solid solution (α' -phase). Orig. art. has: 2 figures.

ASSOCIATION: Institut metallokeramiki i spetsial'nykh splavov AN UkrSSR
(Institute of Metalloceramics and Special Alloys AN UkrSSR)

SUBMITTED: 02Apr63

DATE ACQ: 18Mar64

ENCL: 01

SUB CODE: MM

NO REF SOV: 007

OTHER: 006

Card 2/3

ACCESSION NR: AP4017351

ENCLOSURE: 01

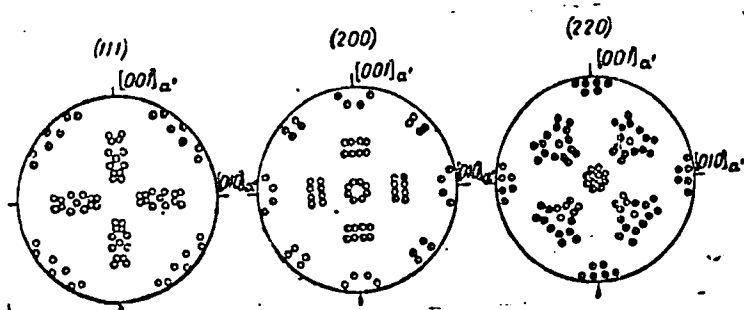


Fig. 1. Polar diagrams of the lines (111) , (200) , and (220) of the γ -phase.

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ARBUZOV, M.P.; PAVLYUKOV, A.A.; KHAYFENKO, R.V.

X-ray study of structural transformations during the aging of the
Anno-4 alloy. Part 1: Modulated structure. Fiz. met. i metalloved.
19 no.3:462-465 Mr '65. (MIRA 18:4)

1. Institut problem materialovedeniya AN UkrSSR.

ARBUZOV, M.P.; PAVLYUKOV, A.A.; KHAYENKO, B.V.

X-ray study of structural transformations during the aging of the "anko-4" alloy. Part 2: Effects of anomalous scattering caused by the initial stages of the decomposition of solid solutions. Fiz. met. i metalloved. 19 no.4:530-535 Ap '65. (MIRA 18:4

1. Institut problem materialovedeniya AN UkrSSR.

L 14999-66 EWT(m)/EWA(d)/T/EWP(t)/EWP(z)/EWP(b) IJP(c) MJW/JD/HW/MJW(CL)
 ACC NR: AP5028562 (N) SOURCE CODE: UR/0126/65/020/005/0723/0727

AUTHOR: Arbuzov, M. P.; Pavlyukov, A. A.

ORG: Institute of Problems of Materials Science AN UkrSSR (Institut problem materialovedeniya AN UkrSSR)

TITLE: A study of the decomposition of alnico-titanium supersaturated solid solutions

SOURCE: Fizika metallov i metallovedeniye, v. 20, no. 5, 1965, 723-727

TOPIC TAGS: metal physics, crystal lattice, metalloid alloy, metal aging, magnetic property, single crystal

ABSTRACT: X-ray analysis was made of the aging properties of an alnico-titanium alloy, quenched and aged at temperatures up to 750°C. It was demonstrated that a modulated structure (formed prior to the appearance of the stable α -phase) precipitate in the initial stages of decomposition. An ordering process was observed in the matrix alloy lattice during aging. The alloy had a composition of 34% Co, 15% Ni, 7% Al, 4% Cu, 5% Ti and 35% Fe. Above 1250°C, this alloy formed an ordered α' -

UDC: 548.7

Card 1/2

I 14999-66

ACC NR: AP5028562

phase (BCC of FeAl type) and the BCC α -phase and the FCC γ -phase below 800°C. Monochromatic CoK_α radiation was used to obtain x-ray patterns for stationary, rotating and oscillating single crystals. In the quenched samples, interference was noted on the pattern as a result of the ordering in the α' -solid solution; the lattice spacing of this phase was 2.86 angstrom. With increase in aging, the intensity of reflected halos in the patterns strengthened, while the lattice-matrix correspondence improved. Data are presented in tabular form for the reflection angles of the auxiliary lines (given hkl plane) for stationary specimens and for different heat treatments. At aging temperatures of 700 and 750°C, the α -phase reflections became prominent. Pole figures were shown for the auxiliary lines of the cubic lattice having the indices (111), (311), (133) and (511). It was established that the precipitate had a FCC lattice with a lattice parameter of 5.72 angstrom oriented with $\langle 100 \rangle$ parallel to $\langle 100 \rangle$ of the matrix. The secondary reflections confirmed that ordering occurred in the matrix which was of the Fe_3Al type. Orig. art. has: 2 figures, 1 table.

SUB CODE: 11/

SUBM DATE: 05Nov65/

ORIG REF: 002/

OTH REF: 005

magnetic alloy 18

Card 2/2

ACCESSION NR: AP5020391

UR/0230/65/000/008/0011/0013
624.873:624.21.8

AUTHORS: Meshcheryakov, L. I. (Engineer); Rayevskiy, N. A. (Engineer); Pavlyukov, Yu. A. (Engineer)

TITLE: A rational construction of floating supports from KS pontoon

SOURCE: Transportnoye stroitel'stvo, no. 8, 1965, 11-13

TOPIC TAGS: transportation, general construction / KS pontoon

ABSTRACT: A description is given of the construction of highway bridge No. 404 in the city of Astrakhan. The bridge consists of four prestressed concrete spans, 43.2 m long. A plan to move the deck spans into position by means of ordinary floats was discarded in favor of a plan which would diminish exposure of the decks to excessive bending moments and concentrated loads at the points of reaction with the floats. A plan for rational support was conceived by planning group No. 3, Mosstroy. The substitute plan involved the use of KS pontoons both for superstructure towers and for support of the deck girders. A total of 16 pontoons was used, all with standard bolted joints. The arrangement of support pontoons is shown in a sketch. Three groups of four floats each provide the principal.

Card 1/2

L 65289-65

ACCESSION NR: AP5020391

flotation, with four additional floats arranged along the girders to alleviate bending moments and to distribute the loading. A detailed discussion is given of the manner of assembling and mounting the pontoons to the structure. Additional information is presented on the manner of supplying and removing water ballast from the pontoons. The float arrangement was used for four months and then disassembled. The arrangement was cited as being easy to assemble and disassemble, requiring little manpower and equipment outlay. Variations of the system described were said to be useful in transporting decks up to 60 m long and up to 200 tons in weight. Orig. art. has: 3 figures.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: 00

NO REF SOV: 000

OTHER: 000

Card 2/2 *ll*

PAVLYUKOV, I.I., kand.ekon.nauk; RABSHYNA, V.M., kand.ekon.nauk

reduce the cost of grain. Zemledelie 27 no.9:12-16 S '65.

M 14 (4:10)

1. Zaporozhskaya oblastnaya sel'skokhozyaystvennaya opyt'naya
stantsiya.

MOGILNAYA, I.I. [Mogilyayeva, I.I.]; BELAN, L.F. [Bielan, L.F.]; PAVLYUKOVA,
I.I. [Pavlyukova, I.I.]

Manufacture of clothing from the synthetic fabric "Pavinol."
Int. prom. no.3:56-57 J1-S '65. (MIRA 18:2)

TIMOSHENKO, I.V.; PAVLYUKOVA, G.V.; BORISOV, A.F.; SUSLOVA, I.A.; CHERNINA, L.L.

Using vibration to improve the quality of electrocast refractories.
Ogneupory 29 no.11:496-499 '64. (MIRA 18:1)

1. Saratovskiy filial Nauchno-issledovatel'skogo instituta stekla.

FEDOROV, A.A.; BOL'SHAKOV, A.Yu.; SOKOLOV, M.M.; NATSVIN, A.N.;
PAVLYUKOVICH, Ye.A.

Principal results of work on using the gamma-ray scattering
method in a Central Asian mercury mine. Uch. zap. SAIGIMSa
no.8:53-58 '62. (MIRA 17:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut razvedochnoy
geofiziki i Yuzhnyy gornometallurgicheskiy kombinat im. Frunze.

NIKIFOROV, N.A.; PAVLYUKOVICH, Ye.A.; PONOMAREV, F.I.

Regularities in the location of high-grade mercury and antimony ores
in deposits of southern Fergana. Zaknom. razm. polezn. iskop. 5:207-228
'62. (MIRA 15:12)

1. Yuzhno-kirgizskiy gorno-metallurgicheskiy kombinat i Sredno-
Aziatskiy politekhnicheskiy institut.
(Fergana—Antimony ores) (Fergana—Mercury ores)

ARBUZOV, M.P.; PAVLYUKOV, A.A.

X-ray study of the structure of the ANKO-4 alloy at 1023 to 1173 K
(700 to 900 C). Fiz. met. i metalloved. 17 no.2:197-200 F '64.
(MIRA 17:2)

1. Institut metallokeramiki i spetsial'nykh splavov AN UkrSSR.

PAVLYUKOV, A.A., red.; KOZIN, V.M., red.; RYMAR, G.V., red.; ZHUKOVA,
Z.P., otv. za vypusk; ZAYATS, F.M., red.; KUZNETSOVA, V.Ya.,
tekhn.red.

[Synthetic resins and molded materials; a concise manual] Sinte-
ticheskie smoly i pressovochnye materialy; kratkii spravochnik.
Pod obshchei red. A.A.Pavliukova, V.M.Kozina, G.V.Rymar. Lugansk,
1959. 76 p. (MIRA 14:2)

1. Russia (1917- R.S.F.S.R.) Luganskiy ekonomicheskii admi-
nistrativnyy rayon. Byuro tekhnicheskoy informatsii.
(Resins, Synthetic)

SOV 137-58-11-22953
Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 161 (USSR)

AUTHORS: L'vov, G. K., Pavlyukov, A. A.

TITLE: Thermokinetic Recrystallization Diagram of 08kp-grade Steel
(Termokineticheskaya diagramma rekristallizatsii stali 08kp)

PERIODICAL: Izv. vyssh. uchebn. zavedeniy. Chernaya metallurgiya, 1958,
Nr 3, pp 119-123

ABSTRACT: The relationship was investigated between the degree of cold deformation, the temperature of the subsequent heating, and the length of soaking time necessary for the completion of the process of recrystallization of rimmed 08kp sheet steel. Specimens of the steel cold rolled with 10, 20, 40, 60, and 83% reduction were heated in a Pb bath at 525, 600, and 700°C as long as 1 hour and were investigated by mechanical (determination of H_v), X-ray diffraction, and microstructural methods. A three-way thermokinetic diagram was constructed from the data obtained.

T. F

Card 1/1

L'VOV, G.K., kand.tekhn.nauk, dotsent; PAVLYUKOV, A.A., inzh.

Thermokinetic diagram of recrystallization of 08kp steel. Izv. vys.
ucheb. zav.; chern. met. no.3:118-123 Mr '58. (MIRA 11:5)

1.Kiyevskiy politekhnicheskii institut.
(Steel--Heat treatment)
(Solidification)

ARBUZOV, M.P.; PAVLYUKOV, A.A.; KHAYENKO, B.V.

X-ray study of structural transformations during the aging of the ANCO-4 alloy. Part 3: State and crystal phase structure formed during the aging of the ANCO-4 alloy. Fiz. met. i metalloved. 20 no.1:33-37 J1 '65.

(MIRA 18:11)

1. Institut problem materialovedeniya AN UkrSSR.

12/11/73, G.I.
USSR/Cultivated Plants - Fruits and Berries.

M-5

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10973

Author : ~~Pavlyukov, G.I.~~

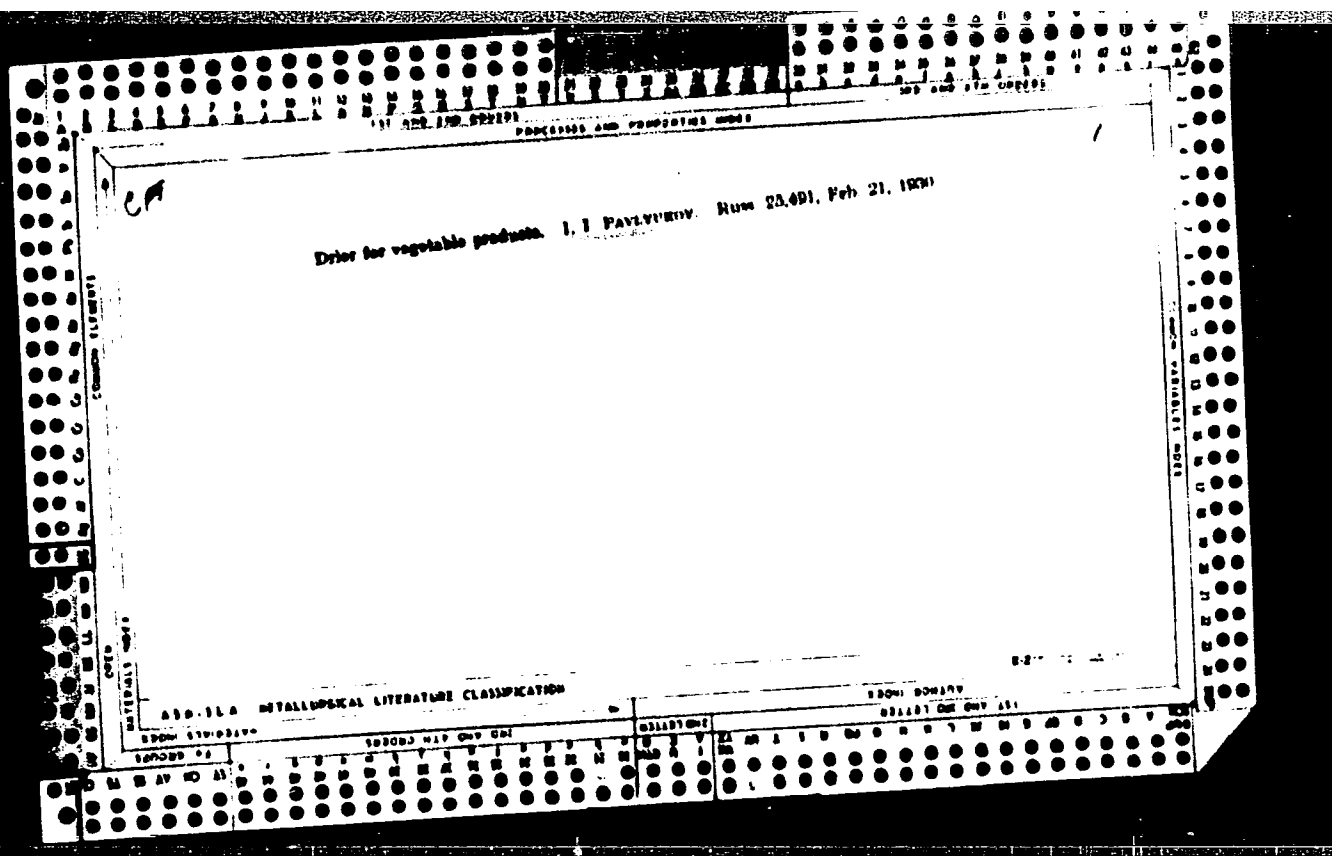
Inst : -

Title : Locally Developed Apple Varieties.

Orig Pub : Sad i ogorod, 1957, No 4, 61.

Abstract : A description is given of the two best locally developed apple varieties cultivated in Gelendzhikskiy rayon, Krasnodarskiy kray -- Cherkesskiy Rozmarin and Polyakovka.

Card 1/1



PAVLYUKOV, V.

25188 Pavlyukov, V. Zadachi sovetskoi Torgovii V. Usloviyakh Novogo Pod'Ema
Narodnogo Khozystva. Plan. Kohna-Uo, 1949, No. 3, c.20-36

SC: Letopis' No. 33, 1949

PAVLYUKOV, Ye. A., Candidate Med Sci (diss) -- "The effect of insulin shock on the leucocytic reactions (Experimental investigation)". Moscow, 1959. 16 pp (First Moscow Order of Lenin Med Inst im I. M. Sechenov), 200 copies (KL, No 24, 1959, 152)

PAVLYUKOV, Ya. A. (Moskva)

Effect of insulin shock on leukocyte reactions. Pat.fiziol. i
eksp.terap. 3 no.2:55-59 Mr-Apr '59. (MIRA 12:6)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof.S.M.
Pavlenko) I Moskovskogo ordena Lenina meditsinskogo instituta
imeni I.M.Sechenova.

(SHOCK, exper.

insulin induced, eff. on leukocyte reaction in
dogs (Rus))

(LEUKOCYTES

reaction in insulin induced shock in dogs (Rus))

RESHETNIKOV, N.S., dots.; LEVANOVA, R.V., inzh.; RASHKOVSKAYA, A.N., inzh.;
ANTONOVA, G.P., tekhnik; ANIKIYENKO, O.M., tekhnik; KORESHKOVA, V.I.
tekhnik; KROTOVA, T.N., tekhnik; BIRYUKOVA, V.N., tekhnik; PAVLYUKOVA,
S.N., tekhnik; PARAKHINA, N.L., tekhn. red.

[Album of working drawings of parts and units of the TDT-60 tractor]
Al'bom rabochikh chertezhei detalei i uzlov traktora TDT-60. Moskva,
Goslesbumizdat. Pt.2. [Xcept the motor] Krome dvigatel'ia. 1959. 388 p.
(MIRA 14:12)

1. Khimki. tsentral'nyy nauchno-issledovatel'skiy institut mekhaniza-
tsii i energetiki lesnoy promyshlennosti. 2. Laboratoriya tipovoy
tekhnologii remonta lesozagotovitel'nogo oborudovaniya i organizatsii
remontnykh predpriyatiy TSentral'nogo nauchno-issledovatel'skogo in-
stituta mekhanizatsii i energetiki lesnoy promyshlennosti (for all
except Levanova, Parakhina).

(Tractors--Design and construction)

PAVLYUKOVTS, V.A.; ~~DEUYANOV~~, B.M.

Result of use of free skin transplantation. Khirurgiia 34 no.12:83-86
D '58. (MIRA 12:1)

1. Is khirurgicheskogo otdeleniya (zav. I.Z. Shiskin) Noril'skoy
gorodskoy bol'nitsy.

(SKIN TRANSPIANTATION,

~~free transpl.~~ results (Rus))

USSR / Soil Science. Genesis and Geography of Soils.

J-2

Abs Jour : Ref. Zhur - Biologiya, No 17, 1958, No. 77387

Author : Pavlyus, Yu.

Inst : ~~Moscow~~ Agricultural Academy imeni K. A. Timiryazov

Title : Soils of the Novorybinsk Sovkhoz of Akmolinskaya Oblast

Orig Pub : Sb. stud. nauchno-issled. rabot. Mosk. s.-kh. akad. in.
K. A. Timiryazova, 1957, (1958), vyp. 7, 188-194

Abstract : No abstract given

Card 1/1

PAVLYUSHCHIK, A.V.

Extraabdominal development of the fetal gastrointestinal tract. Zdrav.
Belor. 5 no.2:60-61 P '59. (MIRA 12:7)

1. Iz Krasnopol'skoy rayonnoy bol'nitsy (glavnyy vrach S.O. Matusevich).
(FETUS--DISEASES AND DEFECTS)
(ALIMENTARY CANAL--ABNORMALITIES AND DEFORMITIES)

PAVLYUSHCHIK, A.V.

Cases of cancer of the stomach at 20- and 37-year intervals following
suturing in gastroenteroanastomosis. Zdrav. Belor. 6 no.3:62-63
Mr '60. (MIRA 13:5)

1. Iz kafedry khirurgii Belorusskogo instituta usovershenstvovaniya
vrachey (zaveduyushchiy kafedroy - professor A.M. Boldin).
(STOMACH--CANCER)

PAVLYUSHCHIK, A.V., aspirant

Importance of determining the hyaluronidase activity of blood
serum in stomach cancer. Zdrav. Belor. 6 no.4:18-20 Ap '60.
(MIRA 14:5)

1. Iz kafedry khirurgii Belorusskogo instituta usovershenstvovaniya
vrachey (zaveduyushchiy - professor A.M.Boldin) i kafedry obshchey
khimii Minskogo meditsinskogo instituta (zaveduyushchiy - dotsent
V.A.Bandarin).
(HYALURONIDASE) (STOMACH--CANCER)

PAVLYUSHCHIK, A.V.

Physical and chemical changes in the blood serum of stomach cancer patients. Zdrav.Bel. 7 no.11:17-20 N '61. (MIRA 15:11)

1. Iz kafedry obshchey khimii (zav. - dotsent V.A.Bandarin)
Minskogo meditsinskogo instituta i kafedry khirurgii (zav. - prof.
A.M.Boldin) Belorusskogo instituta usovershenstvovaniya vrachey.
(STOMACH—CANCER)

FAVLYUSHCHIK, A.V. (Minsk, ul. Podlesnaya, 7, kv. 12)

Hyaluronidase activity of the blood serum in gastric cancer and ulcer during the pre- and postoperative period. Vopr. onk. 17:9
no.4:13-17 '63.

1. Iz kafedry khirurgii (zav. - prof. A.M. Bolotin) Belorusskogo instituta usovershenstvovaniya vrachev i kafedry otanchei khimii (zav. - dotsent V.A. Bandarin) Minskogo meditsinskogo instituta.

PAVLYUSHNIK, L.V., 1971.

Planing and profiling of bars with simultaneous production
of molding fillets. Der.:rom. 14 no.11:22-23 N '65.
(MIRA 18:11)

1. PAVLYUSHKIN, N.

2. USSR (600)

4. Metal Cutting

7. Microlite, Znan. sila. No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953. Uncl.

PAVLYUTKIN, A.P., inzh.; TSIRKOVICH, Ya.N., inzh.

Improve the lower echelon operative planning in mine construction organizations. Shakht.stroi. 9 no.5:4-7 My '65. (MIRA 18:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii i mekhanizatsii shakhtnogo stroitel'stva.

PAVLYUTKIN, A.P., Inzh. TSIREKOVICH, Ya.N.

Regulate the system of awarding bonuses to miners of mines
under construction in the Donets Basin. Shakht. stroit. (MIRA 1967)
no.11:12-23 N°43

1. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii
i mekhanizatsii shakhtnoy stroitel'stva.

PAVLYUTKIN, A.P., inzh.

Efficiency of using high pressure compressed air for hole boring.
Shakht. stroi. no.9:14-17 '58. (MIRA 11:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii i
mekhanizatsii shakhtnogo stroitel'stva.
(Boring machinery--Pneumatic driving)

PAVLYUTKIN, Semen Petrovich; SAMOKHIN, N.I., inzh., retsenzent;
RABINOVICH, N.M., ekonomist, retsenzent; Salyanskiy, A.A.,
red.izd-va; UVAROVA, A.F., tekhn.red.

[Organization and planning in foundries] Organizatsia i
planirovanie v liteinykh tsekhakh. Moskva, Gos.nauchno-tekhn.
izd-vo mashinostroit.lit-ry, 1962. 232 p. (MIRA 15:2)
(Foundries) (Industrial management)

PAVNOTE. O., Ing.: PAVNOTE. I., Dir.

Investigations on the corrosion process of steam turbine and the method of the radiographic analysis. Energetika, 1964, 52-55. P. 165.

1. Enterprise for Rationalization and Modernization of Power Installations. Submitted June 13, 1964.

PAULICEK, R.; PAVOLKO, O.; VOLAVKA, L.; MARTINAK, V.

Technology of founding of locomotive wheel disks and their finishing.
Slevarenstvi 10 no.1:29-30 Ja '62.

1. ZIVS Martin.

PAVOLOTSKAYA, K.L.; BUKIN, V.M.

New data on riboflavin stably bound with protein. Ukr. biokhim.
zhur. 27 no.3: 364-367 1955. (MLRA 8:12)

1. Institut biokhimii im. A.N.Bakha Akademii nauk SSSR, Moskva.
(VITAMIN B₂
bound with proteins)
(PROTEINS,
bound with vitamin B₂)

PAVOLOTS'KIY, Sh.I.

Protistocidal effect of fir preparations. Mikrobiol.zhur. 19 no.1:
40-43 '57. (MLRA 10:7)

1. Z laboratorii po vigotovleniyu smerekovikh preparativ likars'ko-
sanitarnoi sluzhbi Odes'koi nauchnoi ta s kafedri patologichnoi
fiziologii Odes'kogo medichnogo institutu
(ANTISEPTICS,
protistocide fir prep. (Uk))

USSR / Pharmacology, Toxicology. Anti-Inflammatory
Drugs.

V

Abs Jour: Ref Zhur-Biol., No 9, 1958, 42457.

Author : Pavolotskiy, Sh. I.

Inst : Not Given.

Title : The Antiinflammatory Properties of Tar Phytoncides.

Orig Pub: Vrachebn. delo, 1957, No 10, 1047-1048.

Abstract: No Abstract.

Card 1/1

50

FAVOLOTSKIY, SH.I.

USSR/Pharmacology, Toxicology. Antiinflammation Drugs

U-8

Abs Jour : Ref Zhur - Biol., No 4, 1958. No 17765

Author : Pavolotskiy, Sh.I.

Inst : Not Given

Title : The Antiinflammatory Properties of Abies Preparations.

Orig Pub : Farmakol. i toksikologiya, 1956 (1957) prilozh. Sb. ref. 47-48

Abstract : The effect of a dry preparation (DP ; the evaporated extract of the needles and bark of the fir-tree) on the emigration of leucocytes (EL) and the desquamation of epithelium (DE) has been studied. The DP was used as a mouth wash in a 0.02-10% concentration. EL and DE were mostly restrained when a 1% solution was used, especially in the presence of an inflammatory process in the mouth cavity. A 10% solution of DP increased the EL and DE.

Card : 1/1

FAVOLOTSKIY, SH.I.

Myocardial infarction is a disease of the heart muscle. It is caused by a sudden interruption of the blood supply to the heart muscle. (MIRA 1978)

1. Vladivostokskiy universitet.

PAVOLOTSKIY, Sh.I. [Pavolots'kyi, Sh.I.]

Effect of phytoncides on unidirectional permeability of the skin
in frogs [with summary in English]. *Fiziol.shur. Ukr.* 4 no.5:665-671
S-O '58 (MIRA 11:11)

1. Odesskiy meditsinskiy institut, kafedra patologicheskoy
fiziologii, Vrachebno-sanitarnaya sluzhba Odesskoy zheleznoy dorogi,
laboratoriya po izgotovleniyu pikhtovykh preparatov.

(PHYTONCIDES)

(SKIN)

(PERMEABILITY)

PAVOLOV, S. A.

/ Microscopic and photomicrographic analyses of the structure of synthetic sole leather. G. I. Kolosova, A. I. Badanina, and S. A. Pavlov. *Lezhaya Prom.* 14, No. 12, 23-8 (1964). — The material consisted of leather fibers and rubber. Magnification of 280-450 was satisfactory. To distinguish between structural elements, selective staining and also destruction of leather fibers by treating for 3-15 min. on a water bath with a mixt. of 10 ml. 25% H_2SO_4 and 0.75 g. K bichromate and washing with soda and water were employed. Photomicrography was for magnification of 80.
B. Z. Kamich

(2)

PAVLOV, S. A.

602

✓841. Microscopic and photomicrographic analyses of the structure of synthetic sole leather. G. I. Kolosava, A. I. Badasina, and S. A. Pavlov. *Legkoye Prom.*, 1954, 14, No. 12, 23-24. *Chem. Abv.*, 1955, 49, 4360. The material consisted of leather fibres and rubber. Magnification of 280 to 450 was satisfactory. To distinguish between structural elements, selective staining and also destruction of leather fibres by treating for 3 to 15 min on a water bath with a mixture of 10 ml 28% sulphuric acid and 0.75 g potassium bichromate and washing with soda and water were employed. Photomicrography was for magnification of 80. 06X2.44511

2 mly

MS 228

(2)

1. PAVOLOVA, Ye.A.
2. USSR (600)
4. Hares
7. Seasonal variations in the fur of the white hare and forecasting moulting periods.
Trudy VNIO NO. 10. 1951

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

V. New data concerning a firmly bound form of protein-riboflavin. K. L. Pavlovtskaya and V. N. Bukin (A. N. Bakh Inst. Biochem., Acad. Sci. U.S.S.R., Moscow). *Ukrain. Biokhim. Zhur.* 28, 364-7 (1955) (in Russian).—A procedure was adopted for the detn. of the different forms of riboflavin (I), including I-protein combination. For the detn. of total I content the tested material was extd. with

a phosphate buffer of pH 7.8 at about 100°, incubated for 12 hrs. in the presence of trypsin, and the dinucleotides formed hydrolyzed by preps. of phosphatase or $\text{Cl}_2\text{CCO}_2\text{H}$ according to Bessy, *et al.* (C.A. 43, 9193i). In a parallel series of tests I was detd. by one of the usual methods. Tested were wheat, corn, fall and spring potatoes, liver tissue, yeasts, milk, and casein. Values obtained exceeded those secured by the old methods. The firmly combined I is predominantly present in plant specimens. It increases with ripening in berries, fruits, and vegetables and decreases upon storage. During seed sprouting an active process of new I formation takes place. In animals the I content is lower than in plants. The stable I-I casein compd. is present in considerable quantities. The new stable protein-I compd. was found to contain flavine adenine dinucleotide, a coenzyme of the enzyme system of which flavine cyclohydrazase is a component.

B. S. L...

(1)

PAVOLOTSKIY, Sh.I., dots.

Antiphlogistic properties of fir phytoncides. Vrach.delo no.10:1047
O '57. (MIRA 10:12)

1. laboratoriya po izgotovleniyu pikhtovykh preparatov vrachebno-
sanitarnoy sluzhby Odesskoy zheleznoy dorogi i kafedra patologiche-
skoy fiziologii Odesskogo meditsinskogo instituta.
(PHYTONCIDES) (FIR) (INFLAMMATION)

PAVOLORSKIY, Sh.I., Doc Med Sci — (diss) "Experimental, clinical study of the phytonⁱide properties of the fir tree." Kiev, 1989, 19 p; (Acad Sci UkrSSR. Department of Biol Sci) 250 copies. List of author's works pp 11-19 (25 titles) (KL, 36-59, 117)

- 76 -

USSR/Cultivated Plants - Medicinal, Essential Oil, and
Poisonous.

M-7

Abs Jour : Ref Zhur - Biol., No 3, 1958, 11110

Author : Pavolotskiy, Sh. J.

Inst : -

Title : The Protistocidal Effect of Fir Preparations.

Orig Pub : Mikrobiol. zh., 1957, 19, No 1, 40-43

Abstract : It has been discovered that the protistocidal qualities
are more prominent in the Siberian fir than in the Cauca-
sian fir. In both varieties the needles and bark have
greater protistocidal force than the wood.

Card 1/1

PAVOLOTS'KIY, Sh.I.

Some data on the fate of fir phytoncides in the organism. Mikro-
biol.zhur. 19 no.4:54-57 '57. (MIRA 11:1)

1. % Laboratorii vgotovleniya smerekovykh preparativ likarn'ko-
sanitarnoi sluzhbi Odes'koi zaliznitsi ta z kafedri patologichnoi
fiziologii Odes'kogo medichnogo institutu.
(PHYTONCIDES) (FIR)

PAVOLOTSKIY, Sh.I.

Anti-inflammatory properties of fir preparations. *Farm.i toks.* 19
supplement:47-48 '56. (MLRA 10:7)

1. Laboratoriya po izgotovleniyu pikhtovykh preparatov vrachebno-sanitarnoy sluzhby Odesskoy doregi
(INFLAMMATION, experimental,
antiphlogistic eff. of fir extracts (Bus))
(PLANTS,
fir prep., antiphlogistic eff. (Bus))

PAVOLOTSKIY, Sh.I.

~~Biological~~ activity of the needles of *Abies sibirica*. Antibiotiki
4 no.1:114-115 Ja-V '59. (MIRA 12:5)

1. Kafedra patologicheskoy fiziologii (zav.-prof. N.N.Zayko)
Odesskogo meditsinskogo instituta imeni N.I.Pirogova.

(PLANTS,

Abies sibirica ~~phytoncide~~, antimicrobial
eff. (Rus))

PK7001, 1. p. 10p.

1. In accordance with the material
2. 27 no. 7-7:4 no. 1-106.

3. 27 no. 7-7:4 no. 1-106.

4. 27 no. 7-7:4 no. 1-106. 27 no. 7-7:4 no. 1-106. 27 no. 7-7:4 no. 1-106.

MIRSKAYA, M.M.; PAVORINSKIY, Yu.A.; RUBINOVA, R.S.

Experience in using occupational therapy within the general complex of therapeutic measures in a strictly supervised restless psychiatric ward. Zhur.novr.1 psikh. 60 no.5:624-626 '60. (MIRA 13:9)

1. Psikhiatricheskaya klinika (zav. - prof. Yu.A. Povorinskiy) Leningradskogo nauchno-issledovatel'skogo psikhonevrologicheskogo instituta im. V.M. Belkhtereva.

(OCCUPATIONAL THERAPY)

(MENTAL DISORDERS)

PAVOVIC, STOJAN.

Palovic, Stojan. Osnovi petrografije sa kratkim prikazom minerala koji izgrađuju stene. 2 izd. Beograd, Naučna knjiga, 1950. 153 p. (Bases of petrography with a brief description of minerals which form rocks. Bibl., subject index)

SOP Monthly List of East European Accessions, LC, Vol. 3, No. 1, Jan. 1954, Uncl.

USSR/Chemistry - Spectral analysis

Card 1/1 Pub. 43 - 65/97

Authors : Pavonkova, L. S.

Title : Spectral analysis of manganese brass

Periodical : Izv. AN SSSR. Ser. fiz. 18/2, page 283, Mar-Apr 1954

Abstract : The possibility is shown for spectroscopic determination of Zn and Mn in a tri-component (Cu-Zn-Mn) brass in concentrations ranging from 3-4% for Mn and 36-44% for Zn. The effect of Mn on the determination of Zn in brass was determined.

Institution : The Sergo Ordzhonikidze Baltic Plant

Submitted :

PAVOZKOVA, L.S.

Spectrum analysis of manganese brass. Izv. AN SSSR Ser.fiz.18
no.2:283 Mr-Apr '54. (MLRA 7:11)

1. Baltiyskiy zavod im. Sergo Ordzhonikidze.
(Brass--Spectra)

PAVPEROVA, I.A.

Defects in the macrostructure of vacuum-produced ball-bearing steel.
Sbor. trud. TSNIICHHM no.32:36-42 '63. (MIRA 16:12)

RUS, V. N., A. V. L., A. V. L., A. V. L., A. V. L., A. V. L.

Resistance of 100% steel to hot cracking during welding
depends on the technology of melting. (V. N. L., A. V. L.,
no. 10, 1965. (MIRA 12, 12)

1. N. N. L., A. V. L., A. V. L., Institut Chernoy Metalla.

PAVPEROVA, I.A.

Evaluation of titanium nitrides in 1Kh18N9T steel on macrosec-
tions. Sbor. trud. TSNIICM no.24:225-229 '62. (MIRA 15:6)
(Chromium-nickel steel--Inclusions) (Titanium nitride)

PAVPEROVA, I.A.

Standardizing the metallographic method of determining the
alpha-phase in 1Kh18N9T steel. Sbor. trud. TSNIICHM no.24:
230-235 '62. (MIRA 15:6)
(Chromium-nickel steel--Metallography)
(Phase rule and equilibrium)

AUTHOR: Pavperov, V.

SOV-2-58-9-11, 1st

TITLE: The Statistical Year-Book of the People's Republic of Bulgaria for 1956 - Central Statistical Administration Attached to the Council of Ministers, Sofia, 1957 (Statisticheskiy yezhegodnik narodnoy respubliky Bolgarii za 1956 g. - Tsentral'noye statisticheskoye upravleniye pri Sovete Ministrov, Sofiya, 1957)

PERIODICAL: Vestnik statistiki, 1958, Nr 9, p 72 - 77 (USSR)

ABSTRACT: This is a review of the above-mentioned book. There are 4 tables.

Card 1/1

PAVPEROV, V.

Soviet-Bulgarian scientific and technological cooperation. Vnesh.
torg. 27 no.9:7-12 '57. (MLRA 10:9)
(Bulgaria--Technical assistance)

ANDREYEV, Aleksey Kuz'mich; LEVCHUK, Igor' Vasil'yevich; PAVPEROV, V..
red.; TELEGINA, T., tekhn.red.

[Differential credit and payment system; from the work practice
of State Bank branches in Ryazan Province] Differentsirovannyi
reshim kreditovaniia i raschetov; iz opyta raboty uchrezhdenii
Gosbanka Riazanskoi oblasti. Moskva, Gosfinizdat, 1959. 51 p.
(MIRA 13:4)

(Ryazan Province--Banks and banking)

LAZAROV, Kiril, prof.; PAVPEROV, V.P.[translator]; RUDAKOV, Ye.V.
[translator]; SHABUNINA, V.I.[translator]; ALEKSEYEV, I.G.,
red.; GRUSHIN, A.V., tekhn. red.

[Economic development of the Bulgarian People's Republic]
Ekonomicheskoe razvitie Narodnoi Respubliki Bolgarii. Mo-
skva, Izd-vo inostr. lit-ry, 1963. 277 p. (MIRA 17:2)

MATEYEV, Ye.; NIKOL'SKIY, A.S. [translator]; PAVPEROV, V.P. [translator];
TSUKANOV, V.I. [translator]; SAVOST'YANOV, V.V. [translator]; PU-
ZIS, G.B. [translator]; STEPANOV, S.M. [translator]; VIKENT'YEV, A.I.,
red.; OL'SEVICH, Yu.Ya., red.; PRIDANTSEVA, S.V., tekhn. red.

[Labor productivity and the reproduction of the means of produc-
tion under socialism] Proizvoditel'nost' truda i vosproizvodstvo
pri sotsializme. Pod red. A.I. Vikent'eva. Predisl. V.S. Nemchinova.
Moskva, Izd-vo inostr. lit-ry, 1961. 269 p. (MIRA 14:10)

1. Chlen-korrespondent AN Narodnoy Respubliki Bolgarii (for Mateyev).
(Labor productivity) (Economics)

NATAN, Zhak, prof.; GOSIN, I.Ya. [translator]; PAVPEROV, V.P.
[translator]; KIRSHEVSKAYA, A.N., red.; LEVINA, Ye., red.;
RYBKINA, V., tekhn. red.

[History of economic development in Bulgaria] Istoriiya ekonomicheskogo razvitiya Bolgarii. Predisl. i red. A.N. Kirshevskoi. Translated from the Bulgarian. Moskva, Izd-vo inostr. lit-ry, 1961. 498 p. (MIRA 15:3)

1. Deystvitel'nyy chlen Bolgarskoy Akademii nauk (for Natan).
(Bulgaria--Economic conditions)

L 31323-66 EWP(w)/EWA(d)/T/EWP(t) IJP(c) JD/JG
ACC NR: AP5026288

SOURCE CODE: UR/0125/65/000/010/0007/0011

AUTHOR: Russiyen, A. V. (Candidate of technical Sciences); Salautin, V. A. (Engineer); Pavperova, I. A. (Engineer); Gnuchov, S. M. (Candidate of technical sciences)

ORG: TsNIICHM

TITLE: Resistance of austenitic steel EI847 to the formation of hot cracks during welding as a function of melting technology

SOURCE: Avtomaticheskaya svarka, no. 10, 1965, 7-11

TOPIC TAGS: austenitic steel, hot crack, weld defect, metallurgic furnace, arc furnace, induction furnace, ferroalloy / EI847 (OKh16Ni15M3B) austenitic steel

ABSTRACT: The purely austenitic EI847 (OKh16Ni15M3B) steel is designed chiefly for tube production. Its yield point, tensile strength and other properties are sufficiently high at 20 and 600°C. Since, however, occasionally melts of this steel do not behave up to expectations, the authors experimentally investigated the effect of different conditions of its production on its resistance to the formation of hot cracks in the near-weld zone and in the weld metal. Some melts were obtained in a 20-ton arc furnace and others in a 50-kg induction furnace on either using fresh charge (carbon steel or armo iron plus alloy elements) with oxidation of slag or remelting the alloyed wastes with addition of oxygen. Alloying with either alloy metals (Cr metal, Nb metal, Mo metal) or ferroalloys (ferrochrome, ferroniobium, fer-

UDC: 621.791.75:621.746.76

Card 1/2 *jt*

VINOGRAD, M.I.; KISELEVA, S.A.; SMIRNOVA, A.V.; KRASNOVA, A.E.;
PAYVILEVICH, G.A.; PAVPEROVA, I.A.; SMIRNOV, Yu.I.

"Metallography laboratory" by E.V.Panchenko and others. Reviewed
by M.I.Vinograd and others. Zav.lab. 26 no.1:127-128 '60.
(MIRA 13:5)

(Metallography)